# Special Issue

# Analysis of Volatile Compounds for the Assessment of Food Quality and Authentication

## Message from the Guest Editors

Volatile compounds play a key role in defining the sensory characteristics of foods, contributing significantly to their aroma, flavor, and overall quality. Their determination has become increasingly relevant not only for sensory profiling but also as a powerful tool for food authentication and quality assessment. Advances in analytical techniques, such as gas chromatography coupled with mass spectrometry (GC-MS) or ion mobility spectrometry (GC-IMS), electronic noses, and other approaches, have expanded our ability to identify, quantify, and interpret volatile profiles across a wide variety of food matrices. These volatile fingerprints can be used to detect adulteration, monitor freshness, assess the impact of processing and storage, and differentiate products based on geographical origin or production method. This Special Issue of Foods invites the submission of original research articles and critical reviews focused on the development and application of volatile compound analysis for food quality evaluation, authenticity verification, and sensory characterization.

#### **Guest Editors**

Dr. Pablo Rodríguez-Hernández

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# Deadline for manuscript submissions

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# **Foods**

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## Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

#### **Editor-in-Chief**

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